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IPv4 VS IPv6

#. IP address :- As we know IP address is a unique number which is provided to each and every device.

Ex -> 192.168.243.120

IP address
Version

V.V.IIPv4 VS IPv6

Q. Difference between IPv4 & IPv6?

Ans →

IPv4IPv6

① The length of IPv4 is 32 bit.

① The length of IPv6 is 128 bit.

② In IPv4, around 4 billion unique IP addresses are generated (2^{32})

340 trillion are

Difference between IPv4 & IPv6?

Ans →

IPv4

① The length of IPv4 is 32 bit.

② In IPv4, around 4 billion unique IP addresses are generated (2^{32}).

③ The range of IPv4 address is 0 to 255.

IPv6

① The length of IPv6 is 128 bit.

② In IPv6, around 340 trillion unique IP addresses are generated (2^{128}).

③ The range of IPv6 address is 0 to FFFF (65535).

32 V bit.

128 V bit.

② In IPv4, around 4 billion unique IP addresses are generated (2^{32})

② In IPv6, around 340 trillion unique IP addresses are generated (2^{128}).

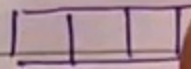
③ The range of IPv4 address is 0 to 255.

③ The range of IPv6 address is 0 to FFFF (65535).

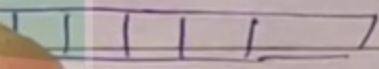
Ex → 192.255.108.253

Ex → 2001:DB8:1904:FB83:1800:1751:CHBA:

④ It consists 4 octets,
each has 8 bits.



④ It consists 8 octets,
each has 16 bits.



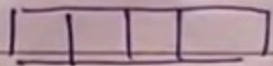
② The range of IPv4 address is 0 to 255.

Ex → 192.255.108.253

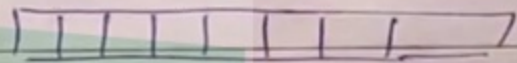
③ The range of IPv6 address is 0 to FFFF (65535).

Ex → 2001:DB8:1904:FB83:1800:1751:CHBA:0

④ It consists 4 octets, each has 8 bits.



④ It consists 8 octets, each has 16 bits.



⑤ IPv4 is a numeric address separated by dots.

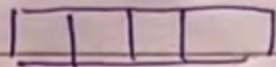
⑤ IPv6 is a ~~numeric~~ alphanumeric address separated by Colon (:).

⑥ IPv4 has 32 bits, IPv6 has 128 bits. IPv4 doesn't have any

Ex → 192.255.108.253

Ex → 2001:DB8:1904:FB83:1800:1751:CHBA:0

④ It consists 4 octets,
each has 8 bits.



④ It consists 8 octets,
each has 16 bits.



⑤ IPv4 is a numeric
address separated by . (dot) n

⑤ IPv6 is a numeric
address separated by : (colon) n

⑥ IPv4 has total five
classes.

⑥ IPv6 has total 128
classes.



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